

AMONICS LTD.





Applications

- SONET/SDH Systems
- LANs and MANs
- Fiber Optic Sensing
- CATV Networks
- Laboratory

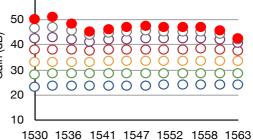


Description

Amonics EDFA module, operated on a single +5V power supply, is an ideal building block for OEM system integration as it comes with the essential EDFA functions to serve various purposes and the interfaces of ready for system integration.

Photodetection of output and/or input signal is included. Three different control modes. ACC, APC and AGC, are available to meet different requirements.

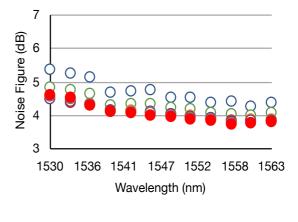
AEDFA-23-M-FA Gain 60



Wavelength (nm) ○ 0dBm ○ -5dBm ○ -10dBm ○ -15dBm

AEDFA-23-M-FA Noise Figure

○ -20dBm ○ -25dBm ● -30dBm





Key Features

- Small foot print
- High output power
- High gain
- Wide operation range
- Single +5V power supply
- · Highly reliable and durable



Specifications

	AEDFA -13	AEDFA -18	AEDFA -23
Saturation Output Power (at -3dBm input signal)	> +13dBm	> +18dBm	> +23dBm
Small-Signal Gain at 1550nm (at -30dBm input signal)	> 30dB	> 32dB	> 37dB
Noise Figure (typ.) (at -3dBm input signal)	5.0dB	5.5dB	6.0dB
Operating Wavelength	1528nm – 1563nm		
Input Isolation	> 30dB		
Output Isolation	> 30dB		
Polarization Dependent Gain	Typ. 0.3dB, Max. 0.5dB		
Control Mode	ACC, APC, AGC (optional)		

^{*} Other output power models are available upon request

General Parameters

Parameters	Unit	Specifications	
Operation Temperature	۰C	0 to +40	
Storage Temperature	°C	-10 to +70	
Power Supply	VDC	5.0 ± 0.1	
Dimensions	mm	100(W) x 120(D) x 18(H) for AEDFA -13 120(W) x 200(D) x 25(H) for AEDFA -18 and AEDFA -23	
Optical Power Monitoring	-	Output power, Input power (optional)	
Electrical Connector Interface	-	14-pin MIL Socket for AEDFA -13 DB25 Connector for AEDFA -18, AEDFA -23	
Protection	-	Pump laser (TEC) overheat	
Optical Connector	-	FC/APC, FC/UPC, SC/APC, SC/UPC	
Optical Fiber	-	Min. 0.5m long SMF-28	

Option

· Gain flattening filtering





Ordering Information

Product Code	AEDFA-xx-M-zz	xx: Saturation output power in dBm zz: FA for FC/APC, FC for FC/UPC SA for SC/APC, SC for SC/UPC
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the specifications in this document are subject to change without notice

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